

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 08/08/02

Date Received: 07/25/02

Project: Metro Self Monitor, PO# M88615

Date Extracted: 08/07/02

Date Analyzed: 08/07/02

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M88615 207214-01	0.16	0.21	0.18	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: 08/08/02

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Project: Metro Self Monitor, PO# M88615

### QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 207152-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.23	0.25	8	0-20
Copper	mg/L (ppm)	0.17	0.21	21 a	0-20
Nickel	mg/L (ppm)	0.12	0.14	15	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 207152-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	0.23	89	80-120
Copper	mg/L (ppm)	2	0.17	88	80-120
Nickel	mg/L (ppm)	4	0.12	84	80-120
Zinc	mg/L (ppm)	2	<0.05	90	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	89	90	80-120	1
Copper	mg/L (ppm)	2	89	90	80-120	1
Nickel	mg/L (ppm)	4	86	87	80-120	1
Zinc	mg/L (ppm)	2	93	92	80-120	1

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

August 8, 2002

**DUPLICATE COPY**

**INVOICE # 02ACU0808-3**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M88615 - Results of testing requested by  
Gerry Thompson for material submitted on July 25, 2002.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc  
by Method 6010B @ \$80 per sample \$ 80.00

Amount Due ..... \$ 80.00

FEDERAL TAX ID # (b) (6)

207214

ME 7/25/02 AI,

AKC-000916

## SAMPLE CHAIN OF CUSTODY

Send Report To GERALD A. Thompson  
 Company ALASKAN COPPER WORKS  
 Address 628 S. HANFORD ST.  
 City, State, ZIP SEATTLE WA 98134  
 Phone # 206-382-8379 Fax # 206-382-4309

SAMPLERS (signature) <u>Tom Wilkin</u>	
PROJECT NAME/NO. <u>METRO SELF MONITOR</u>	PO # <u>M88615</u>
REMARKS	

Page # _____ of _____
TURNAROUND TIME <input checked="" type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> RUSH Rush charges authorized by: _____
SAMPLE DISPOSAL <input checked="" type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	OR, Cu, Ni, Zn				
M88615	01	7/25/02	7:20 AM 3:30 PM	H2O	1							✓				

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Tom Wilkin</u>	<u>Tom Wilkin</u>	<u>ALASKAN COPPER</u>	<u>7-25-02</u>	<u>2:25</u>
Received by: <u>Laura Hooper</u>	<u>Laura Hooper</u>	<u>F&amp;B, Inc</u>	<u>↓</u>	<u>✓</u>
Relinquished by:				
Received by:				

FORMS\CHECKIN\COC.DOC

Jul. 15 2002 01:40PM P2

FAX NO. : 2062835044

FROM :



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
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August 8, 2002

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

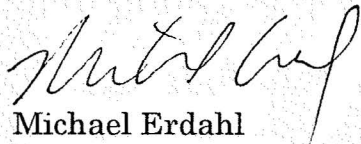
Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 25, 2002 from your Metro Self Monitor, PO# M88615 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
ACU0808R.DOC